

CONTENTS.

	PAGE
Election of Office-Bearers at the General Statutory Meeting, Monday, Nov. 24, 1890, ...	1
Chairman's Opening Address, ...	2
On the Occurrence of Sulphur in Marine Muds and Nodules, and its bearing on their Mode of Formation. By J. Y. Buchanan, F.R.S., ...	17
On a Simple Pocket Dust-Counter. By John Aitken, F.R.S. (With a Plate), ...	39
On the Action of Metallic (and other) Salts on Carbonate of Lime. By Robert Irvine, F.C.S., and W. S. Anderson, ...	52
Manganese Deposits in Marine Muds. By Robert Irvine, F.C.S., and John Gibson, Ph.D., ...	54
On a Difference between the Diurnal Barometric Curves at Green- wich and at Kew. By Alexander Buchan, LL.D., ...	59
Barographic Record in the Vicinity of a Tornado. By John Anderson. Communicated by Dr Buchan. (With a Plate), ...	62
Note on Potassium Persulphate. By Hugh Marshall, D.Sc., ...	63
On the Soaring of Birds : being a Communication from Mr R. E. Froude in continuation of the Extract from a Letter by the late Mr William Froude to Sir William Thomson, published in these "Proceedings," March 19, 1888, ...	65
On some hitherto unproved Theorems in Determinants. By Thomas Muir, LL.D., ...	73
Equation of the Glissette of the Two-term Oval $\frac{x^n}{a^n} + \frac{y^n}{b^n} = 1$, and Cognate Curves. By the Hon. Lord M'Laren, ...	83
The Influence of High Winds on the Barometer at the Ben Nevis Observatory. By Alexander Buchan, LL.D., ...	88
Electrolytic Synthesis of Dibasic Acids. Alkyl Derivatives of Succinic Acid. By Professor Crum Brown and Dr James Walker, ...	95

	PAGE
Proposed Extension of the Powers of Quaternion Differentiation. By Alexander M'Aulay, Ormond College, Melbourne. Com- municated by Professor Tait, ...	98
On the Interaction of Longitudinal and Circular Magnetisations in Iron and Nickel Wires. (Second Note.) By Professor Cargill G. Knott, ...	124
On the Composition of some Deep-Sea Deposits from the Medi- terranean. By J. Y. Buchanan, F.R.S., ...	131
On the Temperature of the Salt and Fresh Water Lochs of the West of Scotland, at Different Depths and Seasons, during the Years 1887 and 1888. By John Murray, LL.D., Ph.D., ...	139
On Silica and the Siliceous Remains of Organisms in Modern Seas. By John Murray, LL.D., Ph.D., &c., and Robert Irvine, F.C.S., ...	229
A New Method for the Estimating the Specific Gravity of the Blood. By John Berry Haycraft, M.D., D.Sc., ...	251
On the Estimation of Uric Acid in the Urine. A Reply to Criticisms upon the Silver Method. By John Berry Haycraft, M.D., D.Sc., ...	255
On a Method of Observing and Counting the Number of Water Particles in a Fog. By John Aitken, F.R.S., ...	259
On an Optical Proof of the Existence of Suspended Matter in Flames. By Sir G. G. Stokes, Bart., F.R.S. (In a letter to Professor Tait), ...	263
Note on the Isothermals of Ethyl Oxide. By Professor Tait, ...	265
Additional Observations on the Development and Life-Histories of the Marine Food-Fishes, and the Distribution of their Ova. By Professor W. C. M'Intosh, F.R.S., ...	268
A Case of Defective Endochondral Ossification in a Human Fœtus (so-called Cretinoid). By Johnson Symington, M.D., and Henry Alexis Thomson, M.D. (With Three Plates), ...	271
On the Blood of the Invertebrata. By Dr A. B. Griffiths, F.R.S.E., F.C.S., &c., ...	288
A New Ship for the Study of the Sea. By His Serene Highness the Prince of Monaco, ...	295
The Electric Resistance of Cobalt at High Temperatures. By Professor Cargill G. Knott, D.Sc., F.R.S.E. (With a Diagram), ...	303
The Thermoelectric Positions of Cobalt and Bismuth. By Pro- fessor Cargill G. Knott, D.Sc., F.R.S.E., ...	310

Contents.

v

	PAGE
On the Effect of Longitudinal Magnetisation on the Interior Volume of Iron and Steel Tubes. By Professor Cargill G. Knott, D.Sc., F.R.S.E., ...	315
On some Relations between Magnetism and Twist. Parts II., III. By Professor Cargill G. Knott, D.Sc., F.R.S.E., ...	318
On the Gravimetric Composition of Water. A Preliminary Com- munication. By Professor W. Dittmar, F.R.S., ...	320
Investigation of the Action of Nicol's Polarising Eye-Piece. By Edward Sang, LL.D. (With a Plate), ...	323
Note on Dr Sang's Paper. By Professor Tait, ...	337
On the Extension of Brouncker's Method to the Comparison of several Magnitudes. By Edward Sang, LL.D., ...	341
Meetings of the Royal Society—Session 1890-91, ...	349
Donations to the Library, ...	357
OBITUARY NOTICES, ...	i-xxiii
INDEX, ...	xxv

